





POLYGRAPHY

or

SHORT-HAND

MADE EASY

To the meanest Capacity:

Being an

UNIVERSAL CHARACTER

Fitted to ALL Languages:

Which may be learnt by this Book,
without the help of a Master:

Invented by

AULAY MACAULAY.

LONDON.

Printed for the AUTHOR, and Sold by
him in the Square, Manchester:

Also Sold by T. OSBORNE, Gray's Inn;

A. MILLAR, Strand; R. HETT, Poultry;

E. COMYNS, Royal-Exchange; I. HINTON,

and I. RIVINGTON, St. Paul's Church Yard;

R. DODSLEY, Pall-mall; W. SANDBY, Fleet

Street, Booksellers in LONDON. And by the

Booksellers in Great Britain and Ireland.

Published according to Act of Parliament,

November the 30.th 1747.

In order to preserve my property in this
Book, as well as to prevent y^e Publick from
being imposed upon by spurious Editions; I
hereby declare that I shall sign my Name
to all that are genuine; & whoever presumes
to pirate my Book, will be prosecuted with
the utmost Rigour.

A. Macaulay





GEORGE R.

George the Second, by the Grace of God, King of Great Britain, France, and Ireland, Defender of the Faith, &c. To all to whom these Presents shall come Greeting: Whereas Au-lay Mac-au-lay hath humbly represented unto Us, that he hath with great Labour & Expence, written & engraven, & fitted for y^e Press, a Book containing Rules & Characters for writing Short-hand, after a new Method of his own Invention, entitled, Polygraphij, or Short-hand made Easy to y^e meanest Capacity, & has humbly besought Us to grant him our Royal Privilege & Licence for y^e sole printing & publishing y^e said Work for y^e Term of Fourteen Years: We, being willing to give all due Encouragement to Works of this Nature, are graciously pleased to condescend to his Request, & We do therefore, by these Presents so far as may be agreeable to y^e Statute in that behalf made & provided, grant unto him, y^e said Au-lay Mac-au-lay, his Executors, Administrators & Assigns, our Licence for y^e sole printing & publishing y^e said Work, for y^e Term

of Fourteen Years, to be computed from y^e Date hereof: strictly forbidding all our Subjects within our Kingdoms & Dominions, to Re-print or Abridge y^e same, either in y^e like, or any other Volume or Volumes whatsoever, or to import, buy, vend, utter or distribute any Copies thereof. Re-printed beyond the Seas, during y^e aforesaid Term of Fourteen Years, without y^e Consent or Approbation of the said Au-lay Mac-au-lay, his Heirs, Executors & Assigns, under their Hands & Seals first had & obtained, as they will answer y^e contrary at their Perils: Whereof y^e Commissioners & other Officers of our Customs; y^e Masters, Wardens, & Company of Stationers, are to take Notice that due Obedience be rendered to our Pleasure herein declared. Given at our Court at S.^t James's, y^e Fourteenth Day of November, 1746, in the Twentieth Year of our Reign.

By his Majesty's Command,

HOLLES NEWCASTLE.

The Certificate.

We whose Names are hereunto Subscribed, declare, that we have seen a little Boy, both write Aulary Macaulary's Short-hand, & read it as distinct by as if what was therein contained had been penned in common hand writing, & we have been credibly informed, that this Boy was taught y^e Art in four lessons, at a time, when he was not quite arrived to y^e Age of seven Years & an half, & y^e Boy himself told us, that he should not be eight Years old till y^e 30th of Jan^y 1747^{1/2}.

John Iofse Esq^r. Gen^l. Post Office London;

John Butler, Southwark, Gent.

Joseph Stanton, Friday Street, Gent.

Edw^d. Rowe Mores, Queen's Coll. Oxon.

James Crockatt, Cloak Lane, Merchant.

A. Maclane, Cheapside.

D. Maclane, Newgate Street.

W^m. Grace, St. Martins le Grand.

John Savill, Cateaton Street.

Rich^d. Holden, Bartholomew Lane.

Michael Bland, Watling Street.

W^m. Stevens Jun^r. Queenhith. Malt Factor.

Jonathan Clarke, King Street.

} Attorneys at Law.

} Linnen Drapers.

} Warehouse Men.

Advertisement.

There is a Notion prevails among many People, to y^e prejudice of all kinds of Short-hand; which is this. That when a Person sets down a Memorandum in his pocket Book, in Short-hand, it is lost, in case of Death or any other accident, to y^e rest of y^e World, though it may contain things of great Consequence to other People. But when this is rightly considered, it will be found a very strong recommendation of my Art, for I affirm, and y^e Certificate annexed to this Book, sufficiently proves y^e truth of what I affirm, that if any Person makes use of my long Short hand, which he will certainly do, in case he designs that what he writes should be read by another Person, it will be as legible to any one acquainted with this Art, as if it was writ in Round Hand. But, if Gentlemen think fit to invent and use abbreviations of their own with a View to keep what they write as a secret from the rest of Mankind, this can be no sort of objection to my Method, which is entirely fitted for general Use, and not for private, or particular Conveniency.)

To the Reader

The following concise System of Short-hand, which I hope will appear as easy, as I am sure it will prove useful, was not y^e effect of a sudden thought, or y^e hasty issue of a bold & happy Invention. I had a strong notion of y^e many advantages that might be derived from Short-hand, I found many difficulties in using those already invented. This put me upon thinking of a new Short-hand; and what cost me several years trouble & meditation, I have freely & faithfully imparted, in a sm^{ll} number of Pages, the contents of which may be speedily acquired; as is sufficiently demonstrated, by y^e little Boy before mentioned. The chief difficulties I found in y^e Short-hands already published, were y^e obscurity, length, and number of their Rules; the uncertainty, confusion, and perplexity of their Characters; the long practice necessary to be able to write, the pain & labour requisite to read at any distance of time, & above all, y^e heavy burthen, imposed on the Memory; which made it equally tedious to learn this Art, and impracticable to retain it. My view therefore was to find out a Short-hand as swift as any of these, and yet unembarrassed with such inconveniences. In order to this, I considered that Short-hand, was no more than a contraction of y^e long, and this put me upon considering the Alphabet, in which, as y^e whole secret of writing lies, so I began to imagin, that I might find there y^e secret, of short writing also. A little attention convinced me, that I was not mistaken,

and, that y^e composing of a new Alphabet, of easy, simple, and distinct Characters, would go a great way towards answering my End. — After I had formed an Alphabet, I found that Characters for double & treble Consonants, were likewise necessary, and, at y^e same time saw, that my stock of plain & distinct Marks from straight & curve lines, was exhausted; I then belthought my self, that they might be three ways varied by y^e alteration of size, & once, by y^e change of place. By repeated trials, I found this Method answer, & fixed the double & treble Consonants so, as that they might be wrote with y^e same facility & distinctness, and yet with y^e very same Characters, that I had employed to represent y^e Alphabet. — One of the best Rules in other Short-hands, I found to be dotting for Vowels, which, in comparison of ordinary writing, is certainly very expeditious; but perceiving, that taking of y^e Pen, & considering where to place y^e Dot, was equal to one stroke, y^e dot it self, another, & returning to begin y^e next Character taking more time than was necessary, to a third, I resolved to drop that way, and to insert y^e Vowels; which, at y^e same time that it makes my Short-hand much more legible, renders it also quicker and more convenient. — As for arbitrary Characters, I found, that in every profession, numbers of them were necessary for technical terms, w^{ch} embarrassed the Art excessively, indeed, split it into several; so that y^e Divine stood in need of one, the Lawyer of another, the Physician of a third, &c. &c. &c. and, that to comprehend, & use them all, was beyond y^e power of Memory; —

and reflecting a little upon this, I found, that, except using y^e Characters before established for the commonest Words, there was no need at all for these arbitrary Characters. — By reflecting farther upon this, I found, y^e terminations also, might be dispensed with, and, that my Short-hand, being as perspicuous, as the long, would admit of the same contractions, without creating, either embarrassment, or confusion; in short, that, by writing y^e radical part of a Word of many Syllables, such as, corrup for corruption, abom for abominable, confed for confederate, extrav for extravagant, legit for legitimate, orig for original, congrat for congratulate, I might as necessity required, shorten my Short-hand, so as to make all y^e dispatch necessary, & yet leave it clear and legible. — Upon these Principles, founded in y^e nature of y^e Art, in y^e nature of things, & in y^e relation of Characters, to Ideas, I framed this new Method of Short-hand, the practice of which, as I am thoroughly convinced from my own experience and that of many others, soon begets such a habit of writing with ease & reading without difficulty, by y^e spontaneous occurring of Characters to y^e Mind when excited by y^e Ear, and to y^e Memory when presented to y^e Sight, as effectually removes all y^e difficulties, that formerly affected this way of expressing Words. — A long Introduction to a concise Method, would be equally unnecessary & absurd. — In the following Pages, all that I know, & all that is necessary to be known, will be found as plainly, and as succinctly set down, as it was in my power to give

it, and, that the Reader may reap the same advantages therefrom, that he expects, that I have promised, and that I am perfectly sensible, may be attained, is the wish and prayer, of

His obliged and grateful
humble Servant,

A. MACAULAY.

Introduction.

The very name of Short-hand expresses its Nature; it has the same relation to Speech that ordinary Writing has to Sentiment, and; as if latter serves to inform another of what we think, so if former enables us to preserve what is delivered by a Speaker. Besides, Short-hand has many other uses, & therefore we need not wonder if in an Age so active & enterprizing as this many attempts have been made to carry this Art to if utmost height of perfectⁿ.

This must necessarily consist in if having but a few Characters, that the Memory may not be burthened; that they may be quickly made & easily joined, that if Hand may not be retarded in its expedition, & so clear in themselves, that they may be known at first sight.

To attain these Ends, I have used my utmost endeavours; & from if following Tables, the Learner will see that I make use of as few Characters as possible; that they are as simple as can be imagined; that they are joined with if greatest facility; & so distinct, as not to occasion if least hesitation in the Reading.

In order to acquire this Method, only those Characters & their Significations, which are contained in if 8th & 9th Pages of this Book, are to be got by Heart; after that if Learner is to exercise himself in Reading and Copying if Specimens, which will put an end to all his Labour, & make him imperceptibly Master of an Art, which at first sight he might scarce think it possible to attain.

This is all I have to say; by way of Introduction; I put if whole of my Cause upon the Learners diligence & attention, & dare then boldly appeal to his own experience for the truth of every Syllable I have advanced, either here or in my proposals as to if advantages of my Method.

The Alphabet and its use.

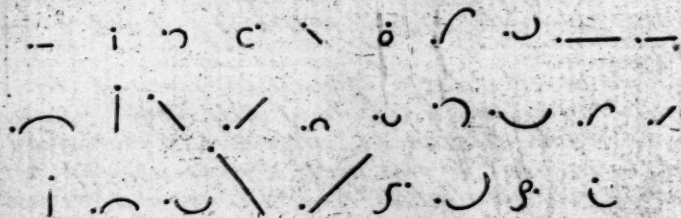
In assigning Characters for y^e common Alphabet, I have taken all possible care to render them easy, distinct, & convenient, which are y^e Chief Things requisite in a Short-hand, that is, not only to be Written with speed, but to remain always legible.

It's very possible that at first sight they may appear uncouth to a Learner; but by taking three at a time, and Writing them two or three times over, y^e whole will be much sooner acquired and retained than can well be imagined.

These Characters are to be considered in a double light: first, as representing y^e Letters of y^e Alphabet, of which, a, o, and u have double Characters to Facilitate their joining.

Secondly they are also Arbitrary Marks for y^e Words that are against them, for w^{ch} they always stand, when by themselves; but, when nearly situated or joined together, they are to be read as Letters, except in those Words that they Stand for when compounded with others.

The following Characters have points placed before them, to shew where they are begun, that they may be y^e more readily made; as to y^e perpendicular strokes, they are begun at either end as will best join with y^e succeeding Characters:



The Reader is to observe, that, in this & y^e two following Tables, I have placed all y^e Characters in my Method in Alphabetical order, with no other Intention than that y^e Learner may more readily find any of them he may be in doubt about, when he first attempts to Read y^e Specimen; but would recommend y^e 8th and 9th Pages, as y^e most expeditious way to attain this Art, these Characters being there placed in a Comparative position:

a	—	a, and	o	—	otherwise
b	∩	but	p	∩	put
c	c	come	qu	∩	question.
d	\	do	r	c	right
e	e	he, ever	s	∩	said
f	∩	for	t	∩	to
g	∩	God, give	u	∩	upon
h	—	him, have	u	∩	unto
i	—	in	v	\	very
k	∩	keep	w	∩	with
l	∩	Lord, let	x	s	expect
m	\	me	y	∩	you
n	∩	not	z	∩	zeal
o	∩	out		∩	&c.

Of the Double and Treble
Consonants?

The same Ends, that were considered in y^e Alphabet, are kept in view also in the double & treble Consonants, which are all placed above y^e line, whereas y^e single Consonants are all upon it.

These likewise serve in a double Capacity, that is, as Consonants when joined, or when in y^e middle or termination of Words they stand disjoined, but as Arbitrary Charact:^{rs} for Words, when alone, so that it is impossible to mistake either in using or in Read^g them.

These are also to be Written by three at a time, till y^e Learner is become perfect, that is to say, can readily make them, & easily distinguish them when made, in both Capacities, that is, as Consonants, & as Characters.

NB: This Art has been very much perplexed by y^e use of Arbitrary Characters, of which, except those four at y^e head of y^e next page, I have none. For, as y^e Letters of y^e Alphabet & y^e double & treble Consonants must be remembred, y^e making these anover y^e end of Arbitrary Characters for common Words begining with the same Letters makes them y^e more easily retained?

The following Characters are begun where the dots are prefixed:

[illegible]

and	.	hand	gl	and	glad, glory
of	.	off	gn	2	gnash
to	,	ing	gr	—	great
ts	v	ings	kn)	know
			ph	3	phantastick
bl	3	blefs	pl		plain
br	9	brought	pr	—	practice
ch		child	rh	9	rhyme
cl	3	clear	sc	/	scorn
cr	'	crown	sh	'	shall
dr	3	drove, drive	sk)	skill
dne	u	dwell	sl	3	sleep
fl	\	flame	sm	o	small, of
fr	3	from	sn	o	snuff, of
gh	v	ght, ghost	sp	3	spoil

The Figure Characters and their Use.

As no Strokes can be more simple than my Figure Characters, consequently they may be much quicker made than the common Figures; as is evident from the following Numbers, of which the Reader will be a judge, the Numbers being first specified in the common Figures, and my Figure Characters placed underneath them, which represent the same Numbers:—

1	2	3	4	5	6	7	8	9	0
—	\		/	∩	∪	∩	∪	—	o
10	11	12	13	14	15	16	17	18	19
⌞	—	∩	∩	∩	∩	∩	∩	∩	—
20	21	22	23	24	25	26	27	28	29
∩	∩	∩	∩	∩	∩	∩	∩	∩	∩
30	40	50	60	70	80	90	100	101	102
∩	∩	∩	∩	∩	∩	∩	∩	∩	∩

And in y^e same manner all other Numbers may be Written. If it were required to set down the following Number, 4,343,434, it is expressed by my Characters in the Letter W, which Number, you know, being Written in full length, Contains the following Words, Four Million, three Hundred and forty three Thousand, four Hundred and Thirty-four. It is hardly possible to Conceive how many different Numbers may be Signified in the Letter W, only by changing or adding Characters at the beginning or ending. —

squ	⤴	square	spr	⤵	spring
st	⤵	stand	str	⤴	strong
sw	⤵	sweet	thr	⤵	through
th	⤴	the.thee.	thw	⤵	thwart
tr	⤴	trust			
tw	⤵	twinkle	1	—	one
wh	⤵	which	2	⤵	two
wr	⤴	wrong	3	⤴	three
Chr	⤴	Christ	4	⤴	four
phr	⤵	phrase	5	⤵	five
sch	⤴	scheme	6	⤵	six
scr	⤴	scrip	7	⤵	seven
shr	⤵	shroud	8	⤴	eight
skr	⤵	skreen	9	⤴	nine
spl	⤴	splend	0	⤴	cipher

The whole Art in one View

Shewing, that the same Characters, when placed above the line, differ in Signification from those upon it.

a and —	i in —	h him, have —	d do \	m me \	v very \
gl glad, glory —	pr practice —	gr great —	wh which \	st stand \	fl flame \
a and 	t to 	l lord, let 	g god, give)	y you)	
th the, thee 	tr ch trust, child 	pl plain 	ph phantastic)	spr spring)	skr screen)
b but)	p put)		o out)	u upon)	k keep)
bl blest)	sl sleep)		sm small)	dw dwell)	
c come c			o otherwise)	u unto)	qu question)
spl splend c			sn snuff)	scr scrip)	

(9)

r right c	f for c		fr from c	kn know c	a and, gl -
cl, str clear, strong c c	sch scheme c	chr christ c	gh, ght ghost v	ts ings v	of, sm c
s said /	n not /	nr with /	squ square c	shr shroud c	of, sn c
cr crown /	sh shall /	sc scorne /	Rest of the Characters not similar to one another.		
x expect s			e he, ever o	sc c	sk skill c
thr through s	phr phrase s	sn sweet s	z zeal 9	a and, th i	i pr -
and hand .	off off .	u scr c	gn gnash 9	thw thwart 9	rh rhyme o
br brought c	nr wrong c	u dov c	ing, When placed near a Character.		
sp spoil c	dr drove, drive c	tw twinkle c	1 2 3 4 5 6 7 8 9 0 - \ / o o c c c o		

Ajoining Table

In which Consonants precede Vowels.

ba be bi bo bu ca ce ci co cu
 2 2 2 2 2 6 6 6 6 6

da de di do du fa fe fi fo fu
 1 1 1 1 1 2 2 2 2 2

ga ge gi go gu ha he hi ho hu
 3 3 3 3 3 1 1 1 1 1

ka ke ki ko ku la le li lo lu
 1 1 1 1 1 1 1 1 1 1

ma me mi mo mu na ne ni no nu
 1 1 1 1 1 1 1 1 1 1

pa pe pi po pu qua que qui quo qu
 1 1 1 1 1 1 1 1 1 1

ra re ri ro ru sa se si so su
 1 1 1 1 1 1 1 1 1 1

ta te ti to tu va ve vi vo vu
 1 1 1 1 1 1 1 1 1 1

wa we wi wo wu xa xe xi xo xu
 1 1 1 1 1 1 1 1 1 1

ya ye yi yo yu za ze zi zo zu
 1 1 1 1 1 1 1 1 1 1

Alike Table

Wherein Vowels precede Consonants.

ab eb ib ob ub ac ec ic oc uc
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ad ed id od ud af ef if of uf
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ag eg ig og ug ah eh ih oh uh
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ak ek ik ok uk al el il ol ul
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

am em im om um an en in on un
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ap ep ip op up aq eq iq oq uq
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ar er ir or ur as es is os us
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

at et it ot ut av ev iv ov uv
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

an en in on un ax ex ix ox ux
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

ay ey iy oy uy az ez iz oz uz
 ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘ ˘

Instructions for Beginners.

As the chief End of this Art is to Write quick, some Licences, in point of Orthography, have been always claimed and Exercised therein; therefore y^e Reader will observe, that the Character *i* is frequently used instead of that for *y*, and, for y^e same Reason, y^e Characters for *s* and *k* are found in y^e place of *c*.

It is proper also to acquaint y^e Reader, that he will meet with many Instances of Letters omitted, because, not absolutely necessary to fix either y^e Sound or y^e Sense of y^e Words, in which they occur; but, though this may be done, for y^e sake of quickness in Writing Short-hand, yet when it's transcribed into the common Writing, those Letters may be easily Replaced.

At the bottom of y^e Page is an Example of y^e first Psalm, written in a small Character, which when y^e Art is thoroughly acquired, will be very easy, but, till then, the Learner is advised to write in a large Character like y^e other Specimens, for the sake of distinctness, and obtaining a habit of making every Character Exactly. —

Psalm I. In the Old Testament,
Written in the long Short-hand:

2 *Handwritten shorthand for Psalm I, line 2*
3 *Handwritten shorthand for Psalm I, line 3*
4 *Handwritten shorthand for Psalm I, line 4*
5 *Handwritten shorthand for Psalm I, line 5*
6 *Handwritten shorthand for Psalm I, line 6*

Remarks on the manner of Writing SHORT-HAND.

As in common Writing, by joining the Letters together, Words are compos'd; so my Characters, which represent those Letters, are in like manner equally capable of forming any Word what ever if properly joined, As for example—

In the Word Man,

Your Character for m is made thus ^m
then make your Character ^a at the Foot of ^m as thus ^m lastly draw your Character ⁿ sloping from the ^a as thus ^m and in y^e same way, by joining y^e proper Characters together, any other Word may be Written, as is sufficiently Demonstrated in y^e following Specimens:

Psalms I In the Old Testament,

Written in the long Short-hand;
wherein all y^e Vowels are included in each Word.

	2	1	V	4	9	/	/	1	a	2
	.	1	u	u	u	19	/	/	.	u
2	u	9	/	1	.	1	u	u	u	u
	/	/	1	V	.	1	u	:	:	/
3	V	1	o	u	u	u	.	u	u	u

4	
5	
6	
<p style="text-align: center;">Pfalm II.</p> <p style="text-align: center;"><i>Written in the long Short-hand.</i></p>	
2	

10	<p>Handwritten shorthand for Psalm III, line 10.</p>
11	<p>Handwritten shorthand for Psalm III, line 11.</p>
12	<p>Handwritten shorthand for Psalm III, line 12.</p>
<p>Pfalm III.</p>	
<p><i>Written in the long Short-hand.</i></p>	
	<p>Handwritten shorthand for Psalm III, line 13.</p>
	<p>Handwritten shorthand for Psalm III, line 14.</p>
2	<p>Handwritten shorthand for Psalm III, line 15.</p>
3	<p>Handwritten shorthand for Psalm III, line 16.</p>

4 $\text{Lr } 5 \cdot \text{L} - \text{L} \times - \text{L} \cup$

h₂ / L h₆ : . o — o h₂ \

5 $m' - \frac{1}{2} \frac{m}{x} = \frac{1}{2} \frac{m}{x} - \frac{1}{2} \frac{m}{x}$

$$1 \sqrt{2} : - 1 : r'_{12}$$

6. $\sqrt{x} - \frac{1}{x} = \frac{1}{2}$ $\frac{1}{2}$

2. 4-1-1

7 | 1 m m x 2 : 0 h : 2

1: n L m : / m 1 2

$\Gamma \cup \Delta$

$\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$


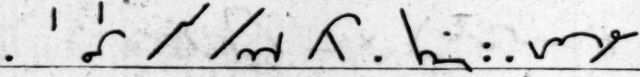
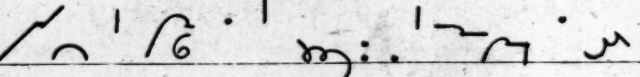
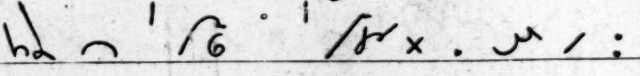
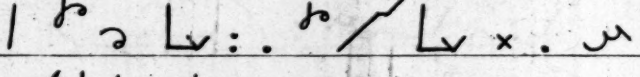
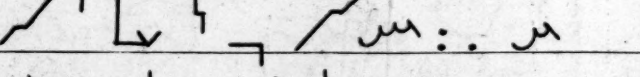
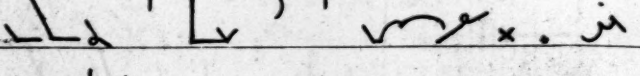
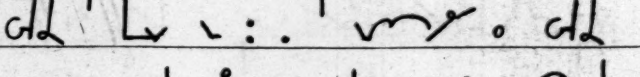
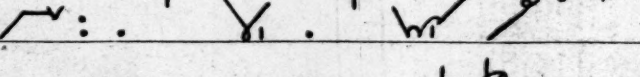
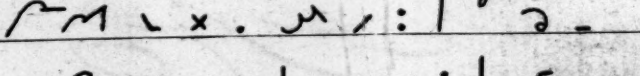
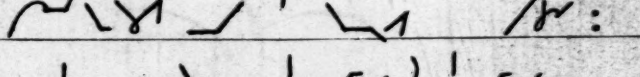
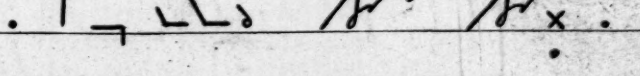
8. $\Delta L \approx \frac{1}{2} \Delta L^2 : L$

Handwritten musical notation on a staff.



Genesis Chap: I.

Written in the long Short-hand.

	
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	س / ا : : ا ل ا س / ا ل ا س
	س / : : ا ل ا س / ا ل ا س
8	ا : : ا ل ا س / ا ل ا س . x
	ا س / ا ل ا س / ا ل ا س .
9	ا ل ا س / ا : : ا ل ا س . x
	: : ا ل ا س / ا ل ا س / ا ل ا س
	س / : : ا ل ا س / ا ل ا س
10	ا : : ا ل ا س / ا ل ا س . x
	: : ا ل ا س / ا ل ا س .
11	ا ل ا س . x / ا ل ا س / ا ل ا س
	ا : : ا ل ا س / ا ل ا س
	ا ل ا س / ا ل ا س : : ا ل ا س
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12	ا . x / ا ل ا س : : ا ل ا س

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17	x . م ا / ا ل م ا
	: ' — لا : ا و ل ن ا ل x
18	. م ا ل م ا ل . م ا ل
	: . ا ل ا ل ' ل ' م ا ل
19	: . م / ل — م / م x .
	ا ل م ا ل . م ا ل م ا ل
20	x . م / : ا ل م ا ل
	م ا ل م ا ل م ا ل
	ل م : . م ا ل ل م
	ا ل م / ا ل م ا ل .
21	— لا x . م ا ل — لا :
	. و ل ا ل م ا ل ل ' :
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	ل م : . و ل ا ل م
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Genesis Chap:XL.

Written in the long Short-hand

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
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Handwritten notes in a cursive script, possibly representing musical notation or a shorthand system, consisting of various loops and strokes.

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[illegible]

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



















































































1 : 2 3 4 5 6 7 8 9 10

— 5 2 5 : . . 5 2 5
 . . 5 2 5 : . . 5 2 5
 21 5 2 5 — 5 2 5 x . . 5 2 5
 . . 5 2 5 : . . 5 2 5
 . . 5 2 5 : . . 5 2 5
 22 5 2 5 — 5 2 5 : . . 5 2 5
 23 5 2 5 — 5 2 5 x . . 5 2 5
 . . 5 2 5 : . . 5 2 5
 . . 5 2 5 : . . 5 2 5

Genesis Chap: XLI.

Written in the long Short-hand

. . 5 2 5 : . . 5 2 5
 . . 5 2 5 : . . 5 2 5
 20 5 2 5 — 5 2 5 x . . 5 2 5

| | |
|----|---|
| 7 | <p>       </p> <p>       </p> <p>       </p> |
| 8 | <p>       </p> <p>       </p> <p>       </p> <p>       </p> |
| 9 | <p>       </p> <p>       </p> |
| 10 | <p>       </p> <p>       </p> <p>       </p> |
| 11 | <p>       </p> <p>       </p> |

12

13

14

15

| | |
|----|---|
| | <p> $\neg : \cdot - - - \neg \neg \neg \neg : 4$
 $m \neg \neg \neg \neg \neg : 1 \neg \neg \neg \neg$ </p> |
| 16 | <p> $\neg \times \cdot \neg \neg \neg \neg \neg : \neg : \neg \neg$
 $\neg \neg \neg \neg : \neg \neg \neg \neg \neg \neg \neg \neg$ </p> |
| 17 | <p> $\neg 26 \times \cdot \neg \neg \neg \neg : \neg$
 $\neg \neg : \neg : \neg \neg \neg \neg \neg$ </p> |
| 18 | <p> $\neg \neg \neg \neg \times \cdot \neg : \neg \neg \neg$
 $\neg \neg \neg \neg \neg \neg \neg : \neg$
 $\neg : \neg \neg \neg \neg : \neg \neg$ </p> |
| 19 | <p> $\neg \neg \neg \neg \times \cdot \neg : \neg \neg \neg$
 $\neg \neg \neg \neg \neg \neg \neg : \neg :$
 $\neg \neg \neg \neg : \neg \neg \neg :$
 $\neg \neg \neg \neg \neg \neg \neg \neg$ </p> |
| 20 | <p> $\neg \neg \neg \neg \neg \neg \times \cdot \neg \neg \neg \neg$
 $\neg \neg \neg \neg : \neg \neg \neg$ </p> |

| | | |
|----|---|-----------------------|
| | 4 | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 37 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 38 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 39 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 40 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 41 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |
| 42 | | ٤ : ٤ : ٤ : ٤ : ٤ : ٤ |

مسئله اول : اگر دو تابع $f(x)$ و $g(x)$ در یک نقطه از دامنه خود مشتق پذیر باشند ، آنگاه :

43

x . o h _ l m /
w h y : . p r e
_ : n / l d : . o h _ m f

44 | 7 7' 1/2 . 57 x . 57 / 0

روا لى نر . نر x . نر . نر

46 | ۱۰۷ x ۱۰۷

47 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

48 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

49 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

50 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

51 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

52 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ ما ا ل

53. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 54. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 55. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 56. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 57. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

1 / 2 3 4 5 6 7 8 9 10
 11 12 13 14 15 16 17 18 19 20

Genesis Chap:XLII.

Written in the long Short-hand.

1 / 2 3 4 5 6 7 8 9 10
 11 12 13 14 15 16 17 18 19 20
 21 22 23 24 25 26 27 28 29 30
 31 32 33 34 35 36 37 38 39 40
 41 42 43 44 45 46 47 48 49 50
 51 52 53 54 55 56 57 58 59 60
 61 62 63 64 65 66 67 68 69 70
 71 72 73 74 75 76 77 78 79 80
 81 82 83 84 85 86 87 88 89 90
 91 92 93 94 95 96 97 98 99 100

11 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

12 ॐ नमो भगवते वासुदेवाय ।
ॐ नमो भगवते वासुदेवाय ।

13. $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$

[illegible]

15x — 2 و 2 : 2
15x — 2 و 2 : 2

$x \rightarrow c$ ۾ $f(x)$ ۾

16

2012-12-12

ما ا ل ف ن : د ر / ه ل ل

17 . . x ك م و ل م ه ن

18 . x ك ك ج ن ا ر ط ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

19 ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

x ل ل ل ل ل ل ل ل ل ل

20 ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

21 ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

ل ل ل ل ل ل ل ل ل ل ل ل

22 ل ل ل ل ل ل ل ل ل ل ل ل

23 $\frac{m}{f} d : r : \sim - / \cup$
 $\cup : r : \sim / \sim r - 1 : \cup$
 $\frac{m}{f} - \sim : \sim \sim \sim \sim \sim$
 $\sim \sim \sim \times . \sim \sim / \sim \sim$
 $\sim \sim \sim d : r . \sim \sim \sim \sim \sim$
 24 $/ \sim \sim \sim \times . . \sim \sim \sim$
 $\sim \sim \sim d : \sim \sim : \sim \sim \sim \sim \sim$
 $\sim \sim \sim : \sim \sim \sim / \sim \sim : \sim \sim$
 $\sim \sim \sim \sim : \sim \sim \sim \sim \sim \sim \sim$
 25 $\sim \times \sim \sim \sim \sim \sim \sim \sim$
 $\sim \sim / \sim \sim : \sim \sim \sim \sim \sim \sim \sim$
 $\sim \sim \sim \sim \sim \sim \sim : \sim \sim \sim \sim \sim$
 $\sim \sim \sim \sim / \sim \sim : \sim \sim \sim \sim \sim$
 26 $\sim \times . \sim \sim \sim \sim \sim / \sim \sim : \sim \sim$
 27 $\sim \sim \sim \sim \sim \times . \sim \sim \sim \sim \sim$

37 x . . .

38 x . . .

Genesis Chap. XLIII

In the long Short-hand

2 . . .

13
14
15
16

17 \ 7 x . ' V L / 2 :

. ' V 7 ' V / 1 2 x

18 . ' V / 3 : 2 2 7 / 1

2 2 : 2 : 1 2

4 / 2 2 2 2 1 2

2 : 2 / 1 : 4 2 2 2 2

2 1 2 : 2 2 2 : 2 2

19 2 2 2 . 2 2 x . 2 2

2 1 2 : 2 2 2 2 2

20 / 1 2 : 2 x . 1 : 2

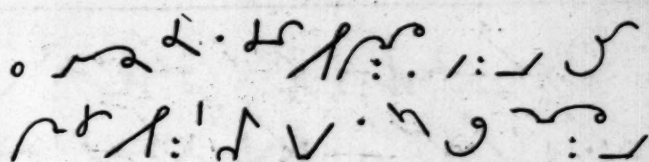
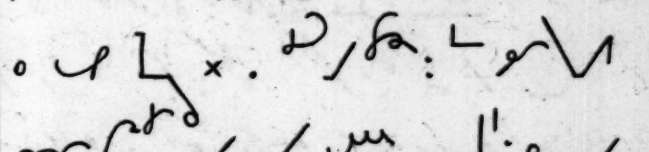
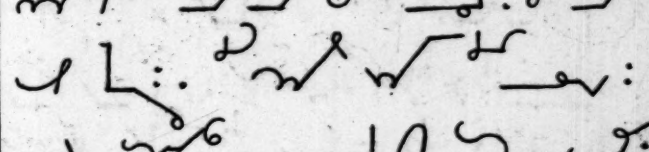
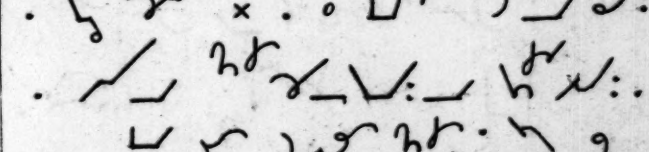
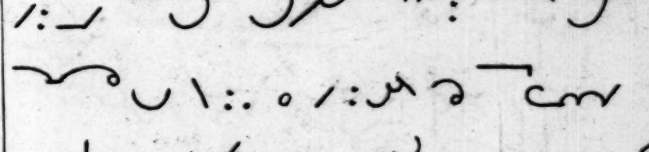
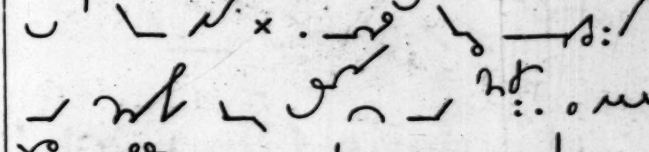

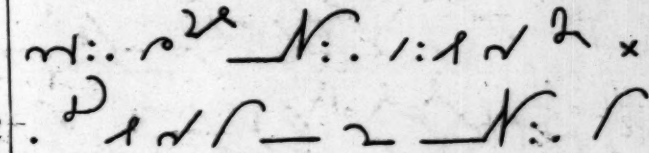

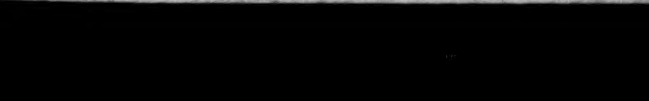
2 : 2 2 2 2 1 2 2

21 1 2 2 x . 2 2 2 / 2

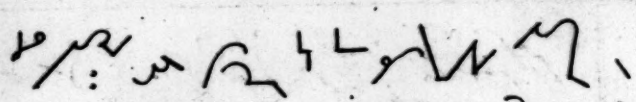
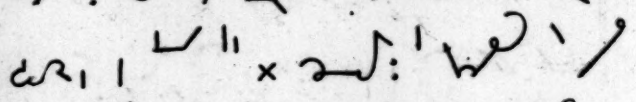
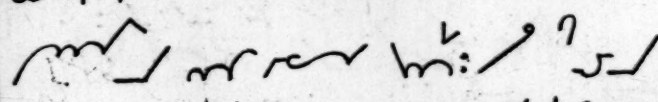
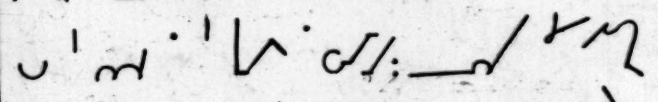
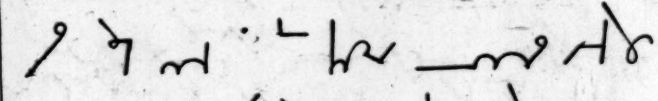
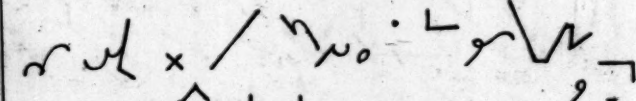
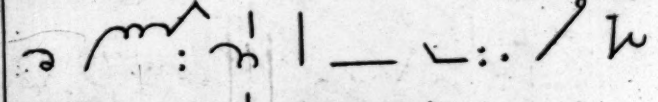
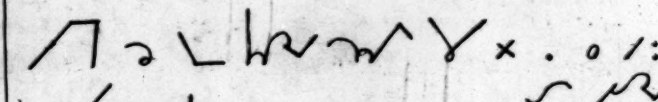
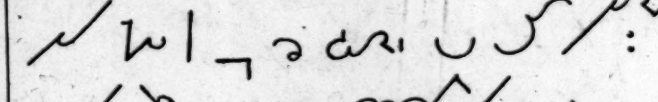
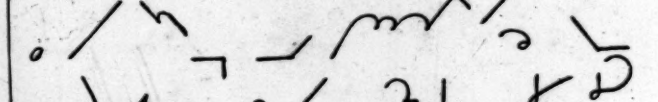
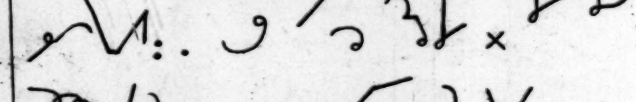

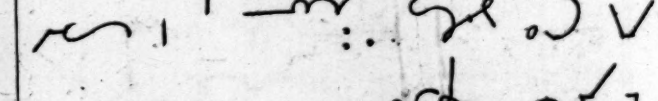
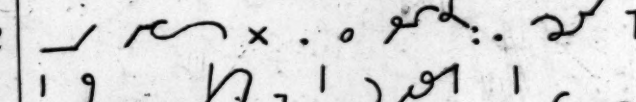
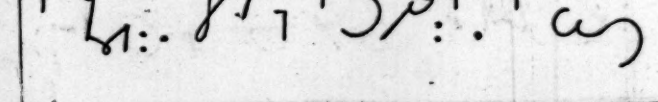
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 29 2 4 x . 7 9 2 4 / 9 9 0 0
 30 2 4 x . 7 9 2 4 / 9 9 0 0

Genesis Chap. XLV

In the long Shorthand

1 *Handwritten shorthand symbols for Genesis 45:1-5*
 2 *Handwritten shorthand symbols for Genesis 45:6-10*
 3 *Handwritten shorthand symbols for Genesis 45:11-15*
 4 *Handwritten shorthand symbols for Genesis 45:16-20*
 5 *Handwritten shorthand symbols for Genesis 45:21-25*

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[illegible][illegible]

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 . $\nearrow \cap :: \wedge _ \vee _ \nearrow \cap _ _$

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[illegible]

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Genefis Chap.L

In the long Short-hand

[illegible]

2 $\text{---} \therefore \text{---} \times \text{---} \text{---} \text{---}$

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3 | $\frac{1}{2} \sqrt{2} \cdot 10 \sqrt{2}$

ਅਮਰ ਨਿਰਮਲਾ

২১. ১৫. ১৯৫৬

4 $\frac{1}{2} \sqrt{x} \cdot \frac{1}{2} \sqrt{x} = \frac{1}{4} x$

[illegible]

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$5 \times \sqrt{r^2 - h^2} : r : h = \sqrt{\quad}$

✓ - - - - - ✓

W.C.S. 1016

[illegible]

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| 7 | لـ : : : : : . - |
| 8 | لـ : : : : : . - |
| 9 | لـ : : : : : . - |
| 10 | لـ : : : : : . - |
| 11 | لـ : : : : : . - |
| 12 | لـ : : : : : . - |

- 19 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 20 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 21 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 22 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 23 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 24 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 25 / - ر: هم: ل: ر: هم: خ: ل: ر: و
- 26 / - ر: هم: ل: ر: هم: خ: ل: ر: و

Matthew Chap. III
In the long Short-hand

1. $\frac{1}{x} + \frac{1}{x^2} = \frac{x+1}{x^2}$
2. $\frac{1}{x} - \frac{1}{x^2} = \frac{x-1}{x^2}$
3. $\frac{1}{x} \cdot \frac{1}{x^2} = \frac{1}{x^3}$
4. $\frac{1}{x} \div \frac{1}{x^2} = \frac{x^2}{x} = x$
5. $\frac{1}{x} + \frac{1}{x^2} = \frac{x+1}{x^2}$
6. $\frac{1}{x} - \frac{1}{x^2} = \frac{x-1}{x^2}$
7. $\frac{1}{x} \cdot \frac{1}{x^2} = \frac{1}{x^3}$
8. $\frac{1}{x} \div \frac{1}{x^2} = \frac{x^2}{x} = x$
9. $\frac{1}{x} + \frac{1}{x^2} = \frac{x+1}{x^2}$
10. $\frac{1}{x} - \frac{1}{x^2} = \frac{x-1}{x^2}$

As I have asserted, that my Short-hand has this peculiar advantage of suiting all Languages, I thought it requisite, to give the following Specimens, as incontestible proofs of its being as universal, as I represent it: —

Pfalm CXVII in Welfsh

انہی خطوں والے جگہ سے
 2 جہاز - ایک - \times ایک والے
 سے لے کر - 12 - 5 - 10 - 15
 جگہ سے انہی جگہ سے - ایک -

Pfalm CXVII in Dutch

2

Pfalm CXVII in French

2 *hnt ruf hos | xpf m ruf*
2 d'p d x or ruf d'p d'p
hnt ruf | d'p d'p | xpf
d'p - hnt ruf | xpf

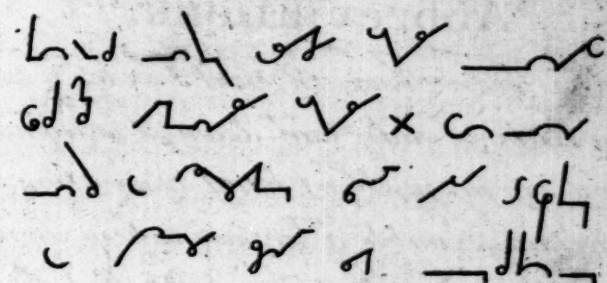
Pfalm CXVII in Spanish

2 *- h - hnt hnt xpf hnt*
2 hnt hnt xpf hnt - d'p
hnt hnt hnt hnt hnt - d'p
hnt hnt hnt hnt hnt - d'p

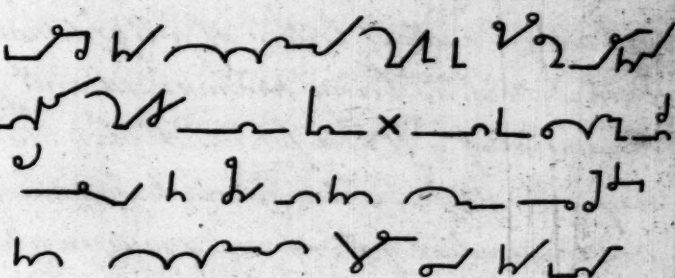
Pfalm CXVII in Italian

2 *Nd hnt hnt hnt hnt*
2 hnt hnt hnt xpf hnt hnt
hnt hnt hnt hnt hnt - d'p
hnt hnt hnt hnt hnt - d'p

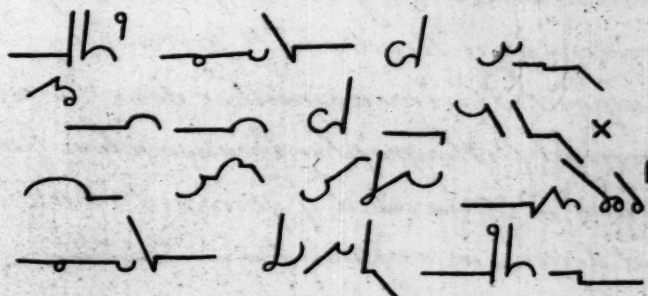
Pfalm CXVII in Latin

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Pfalm CXVII in Greek

2 

Pfalm CXVII in Hebrew

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Remarks on the nature of Abbreviations.

It has been observed, that besides y^e common Rules already laid down, it is requisite in order to carry Short-hand to its utmost perfection, & enable y^e Learner to keep up with the Speaker, to put him into a Method of abbreviating, without having recourse to arbitrary Characters. This Method consists in writing only y^e radical Letters of a Word, that is, such Letters, as being pronounced, will give the sound of y^e Word for which they stand, as for Instance, n d v r, which sounded Literatim, produce y^e Word endeavour, m p h, w.th leads to impeach, & s, which clearly marks an excess, y^e short-hand Characters for these Letters, answers all y^e Ends of arbitrary Characters, as y^e Reader will perceive, by y^e subsequent Specimens, neither does this at all corrupt Orthography, because, when y^e short-hand is transcribed, y^e quiescent or unsounded Letters, are replaced.

The following Specimens are Written by your abbreviating Rules, which renders the Method very swift, and yet leaves it quite legible.

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5 אֶל־יְהוָה אֱלֹהֵינוּ יִשְׁתָּחֲוּ
 6 לִדְבַר מִלְּפָנָיו יִשְׁתָּחֲוּ
 / - /
 x

Pfalm II

2 אֲנִי אֶל־יְהוָה אֱלֹהֵי
 אֱלֹהֵינוּ יִשְׁתָּחֲוּ
 3 יִשְׁתָּחֲוּ לִדְבַר מִלְּפָנָיו
 4 אֶל־יְהוָה אֱלֹהֵינוּ יִשְׁתָּחֲוּ
 5 לִדְבַר מִלְּפָנָיו יִשְׁתָּחֲוּ
 6 אֶל־יְהוָה אֱלֹהֵינוּ יִשְׁתָּחֲוּ
 7 לִדְבַר מִלְּפָנָיו יִשְׁתָּחֲוּ
 8 אֶל־יְהוָה אֱלֹהֵינוּ יִשְׁתָּחֲוּ

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26

Handwritten musical notation on three staves.

[illegible][illegible]

29 | $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) \times \frac{1}{2} = \frac{1}{4}$

30 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

31 xx . 2 / 0) " 4 . — 4 . w _ / \

x . ! p . ! w / z ! z !

Genesis Chap. XL

1. וְיִשְׂרָאֵל אָמַר אֶל-יֹסֵף אֲנִי מֵת וְאַתָּה יֹסֵף אֶת-עֲבָדֶיךָ מִן-הָאָרֶץ
 2. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ
 3. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ
 4. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ
 5. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ
 6. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ
 7. אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ אֲנִי אֲמַרְךָ

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Genefis Chap.XLI

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| | <p> 'מ'נ'נ' . 'מ'נ'נ' - 'מ'נ'נ'
 31 'מ'נ'נ' - 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
 32 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
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| 33 | <p> 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
 34 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
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| 35 | <p> 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
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| 36 | <p> 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
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| 37 | <p> 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' </p> |
| 38 | <p> 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ'
 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' . 'מ'נ'נ' </p> |

46. x
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 48.
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 50.
 51.
 52.

53 $\sqrt{x} \cdot \sqrt{a} - \sqrt{a} \cdot \sqrt{x}$
 $\times \sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$

54 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$

55 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$

56 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$

57 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$
 $\sqrt{a} \cdot \sqrt{x} - \sqrt{x} \cdot \sqrt{a}$



Genefis Chap. XLII

1. / \ _an / 4 r / _an - 27 _an
 / \ _an / 4 r / _an - 27 _an
2. . . / 27 _an - 4 r / _an -
 27 _an / 4 r / _an - 27 _an
3. \ 4 . / \ x . _an / 27 _an /
 27 _an / 4 r / _an - 27 _an
4. 2 _an - 27 x / 4 r / _an -
 27 _an / 4 r / _an - 27 _an
5. 27 _an - x . / 4 r / _an -
 27 _an / 4 r / _an - 27 _an
6. x . / 4 r / _an - 27 _an /
 27 _an / 4 r / _an - 27 _an
6. 27 _an / 4 r / _an - 27 _an /
 27 _an / 4 r / _an - 27 _an

וְיָשָׁב אֶל-אֱלֹהֵינוּ

Genefis Chap. XLIII

2. וְיָשָׁב אֶל-אֱלֹהֵינוּ

וְיָשָׁב אֶל-אֱלֹהֵינוּ

3. וְיָשָׁב אֶל-אֱלֹהֵינוּ

וְיָשָׁב אֶל-אֱלֹהֵינוּ

וְיָשָׁב אֶל-אֱלֹהֵינוּ

4. וְיָשָׁב אֶל-אֱלֹהֵינוּ

5. וְיָשָׁב אֶל-אֱלֹהֵינוּ

וְיָשָׁב אֶל-אֱלֹהֵינוּ

6. וְיָשָׁב אֶל-אֱלֹהֵינוּ

וְיָשָׁב אֶל-אֱלֹהֵינוּ

7. וְיָשָׁב אֶל-אֱלֹהֵינוּ

- 21 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 22 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 23 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 24 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 25 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 26 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 27 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 28 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$
 29 $\frac{2r}{\text{...}} \cdot \text{...} \cdot \text{...} \cdot \text{...} \cdot \text{...}$

١. ٢. ٣. ٤. ٥. ٦. ٧. ٨. ٩. ١٠. ١١. ١٢. ١٣. ١٤. ١٥. ١٦. ١٧. ١٨. ١٩. ٢٠.

سید محمد رفیع ۱۸۲۱ - ۱۸۲۲

7. $\frac{1}{x^2} = x^{-2}$

WTV - 'd' . 175 L2 -

8 | — ۱۷۴۰ x ۲۲۱ ۱/۲

1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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תאריך: 10/1/78

10 c w u \ w / x . h ^ 1 \cap ' V

$\frac{1}{2} \cdot h \cdot L$

W W L W L 3 144

11 $\frac{1}{x} \cdot r A - m' r$

$\frac{1}{\sqrt{2}} \left(\begin{matrix} 1 & 0 \\ 0 & 1 \end{matrix} \right)$

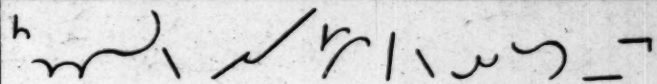
12. 7th - 1901

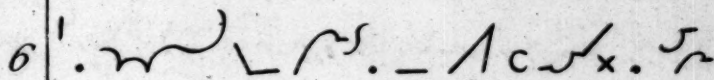
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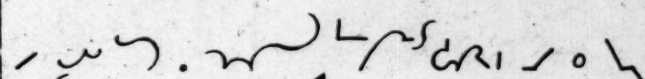
28 x. — — — — —
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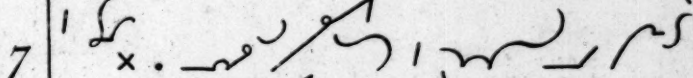
Genesis Chap. L

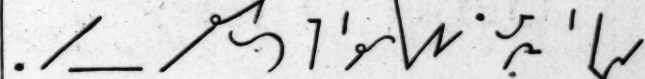
2 . — — — — —
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3 x. — — — — —
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5 x. — — — — —
— — — — —

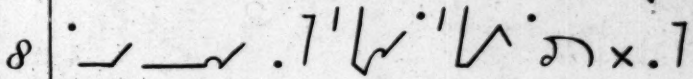
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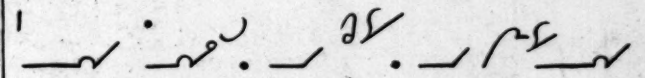
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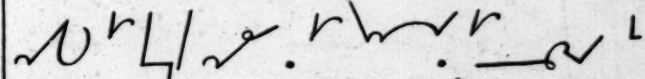


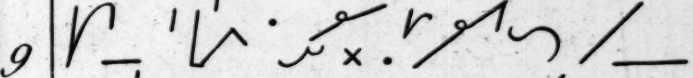
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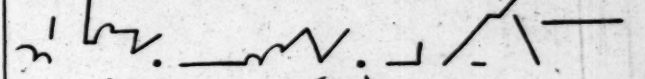


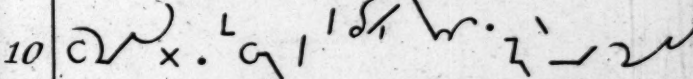
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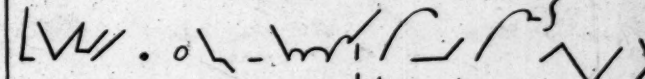


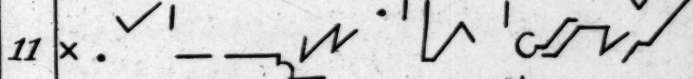
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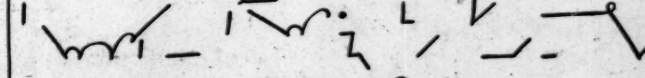


10. 





11. 





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| 19 | و — x — |
| 20 | و — x — |
| 21 | و — x — |
| 22 | و — x — |
| 23 | و — x — |
| 24 | و — x — |
| 25 | و — x — |
| 26 | و — x — |

